

WHAT IS CLAIMED IS:

- 1 1. A method for making data available to an application program,
2 comprising:
3 generating a cursor positioned with respect to a result table, wherein the cursor
4 specifies a search criteria, wherein the result table includes rows from a base table that
5 satisfy the search criteria;
6 receiving a fetch request indicating to position the cursor on a plurality of rows of
7 the result table; and
8 positioning the cursor on the plurality of rows of the result table indicated in the
9 fetch request that satisfy the search criteria.

- 1 2. The method of claim 1, further comprising:
2 placing a lock on the plurality of rows of the result table on which the cursor is
3 positioned.

- 1 3. The method of claim 2, wherein the fetch request is received from a client
2 at a server, further comprising:
3 returning, by the server, the plurality of rows at the server on which the cursor is
4 positioned to the client that sent the fetch request, wherein the lock is placed on the
5 plurality of rows at the server to block the plurality of rows on which the cursor is
6 positioned.

- 1 4. The method of claim 2, further comprising:
2 receiving a subsequent fetch request to reposition the cursor on at least one row of
3 the result table; and
4 releasing the lock on the plurality of rows of the result table on which the cursor
5 is currently positioned before being repositioned.

1 5. The method of claim 1, wherein the cursor is positioned on a current
2 plurality of rows of the result table before receiving the fetch request, and wherein
3 positioning the cursor further comprises:
4 determining a rowset size; and
5 positioning the cursor on a number of rows with respect to one row of the result
6 table having rows that satisfy the search criteria.

1 6. The method of claim 5, wherein positioning the cursor on the number of
2 rows with respect to one row of the result table comprises one of:
3 positioning the cursor on a number of rows preceding a first row of the current
4 plurality of rows that satisfy the search criteria;
5 positioning the cursor on a number of rows from a first row of the result table that
6 satisfy the search criteria;
7 positioning the cursor on a number of rows preceding an end of the result table
8 that satisfy the search criteria;

1 7. The method of claim 1, wherein the cursor is positioned on a current
2 plurality of rows of the result table before receiving the fetch request specifying an
3 integer k , and wherein positioning the cursor further comprises:
4 determining a rowset size; and
5 positioning the cursor on a number of rows that satisfy the search criteria and is
6 positioned with respect to k rows from row of the result table having rows that satisfy the
7 search criteria.

1 8. The method of claim 7, wherein positioning the cursor on a number of
2 rows that satisfy the search criteria and is positioned with respect to k rows from row of
3 the result table comprises one of:

4 positioning the cursor on a number of rows that satisfy the search criteria and
5 precede k rows preceding a first row of the current plurality of rows that satisfy the
6 search criteria;
7 positioning the cursor on a number of rows that satisfy the search criteria and
8 follow a number of rows equal to the rowset size from a k th row from a first row of the
9 result table;
10 positioning the cursor on a number of rows that satisfy the search criteria and
11 precedes k rows that satisfy the search criteria preceding a last row of the result table; and

1 9. The method of claim 1, further comprising:
2 receiving a request to modify at least one row in the rows on which the cursor is
3 positioned; and
4 modifying the at least one row on which the cursor is positioned as indicated in
5 the request.

1 10. The method of claim 9, wherein the modification comprises updating or
2 deleting the at least one row on which the cursor is positioned as indicated in the request.

1 11. The method of claim 1, wherein the cursor comprises one of a static cursor
2 or dynamic cursor, wherein if the cursor is static, then the cursor is either sensitive or
3 insensitive to changes in the base table from which the result table is generated.

1 12. The method of claim 1, wherein the cursor is positioned on a current
2 plurality of rows of the result table before receiving the fetch request, and wherein the
3 current plurality of rows is a different number than a number of the rows on which the
4 cursor is positioned in response to the fetch request.

1 13. A system for making data available to an application program,
2 comprising:

3 a memory;
4 a base table;
5 a result table, wherein the result table includes rows from a base table that satisfy
6 a search criteria;
7 means for generating a cursor positioned with respect to the result table;
8 means for receiving a fetch request indicating to position the cursor on a plurality
9 of rows of the result table; and
10 means for positioning the cursor on the plurality of rows of the result table
11 indicated in the fetch request that satisfy the search criteria.

1 14. The system of claim 13, further comprising:
2 means for placing a lock on the plurality of rows of the result table on which the
3 cursor is positioned.

1 15. The system of claim 14, wherein the fetch request is received from a client
2 at a server, further comprising:
3 means, performed by the server, for returning the plurality of rows at the server
4 on which the cursor is positioned to the client that sent the fetch request, wherein the lock
5 is placed on the plurality of rows at the server to block the plurality of rows on which the
6 cursor is positioned.

1 16. The system of claim 14, further comprising:
2 means for receiving a subsequent fetch request to reposition the cursor on at least
3 one row of the result table; and
4 means for releasing the lock on the plurality of rows of the result table on which
5 the cursor is currently positioned before being repositioned.

1 17. The system of claim 13, wherein the cursor is positioned on a current
2 plurality of rows of the result table before receiving the fetch request, and wherein the
3 means for positioning the cursor further performs:
4 determining a rowset size; and
5 positioning the cursor on a number of rows with respect to one row of the result
6 table having rows that satisfy the search criteria.

1 18. The system of claim 17, wherein the means for positioning the cursor on
2 the number of rows with respect to one row of the result table performs one of:
3 positioning the cursor on a number of rows preceding a first row of the current
4 plurality of rows that satisfy the search criteria;
5 positioning the cursor on a number of rows from a first row of the result table that
6 satisfy the search criteria;
7 positioning the cursor on a number of rows preceding an end of the result table
8 that satisfy the search criteria;

1 19. The system of claim 1, wherein the cursor is positioned on a current
2 plurality of rows of the result table before receiving the fetch request specifying an
3 integer k , and wherein the means for positioning the cursor further performs:
4 determining a rowset size; and
5 positioning the cursor on a number of rows that satisfy the search criteria and is
6 positioned with respect to k rows from a row of the result table having rows that satisfy
7 the search criteria.

1 20. The system of claim 19, wherein the means for positioning the cursor on a
2 number of rows that satisfy the search criteria and is positioned with respect to k rows
3 from a row of the result table performs one of:

4 positioning the cursor on a number of rows that satisfy the search criteria and
5 precede k rows preceding a first row of the current plurality of rows that satisfy the
6 search criteria;
7 positioning the cursor on a number of rows that satisfy the search criteria and
8 follow a number of rows equal to the rowset size from a k th row from a first row of the
9 result table; and
10 positioning the cursor on a number of rows that satisfy the search criteria and
11 precedes k rows that satisfy the search criteria preceding a last row of the result table; and

1 21. The system of claim 13, further comprising:
2 means for receiving a request to modify at least one row in the rows on which the
3 cursor is positioned; and
4 means for modifying the at least one row on which the cursor is positioned as
5 indicated in the request.

1 22. The system of claim 13, wherein the cursor comprises one of a static
2 cursor or dynamic cursor, wherein if the cursor is static, then the cursor is either sensitive
3 or insensitive to changes in the base table from which the result table is generated.

1 23. An article of manufacture for making data available to an application
2 program, wherein the article of manufacture causes operations to be performed, the
3 operations comprising:
4 generating a cursor positioned with respect to a result table, wherein the cursor
5 specifies a search criteria, wherein the result table includes rows from a base table that
6 satisfy the search criteria;
7 receiving a fetch request indicating to position the cursor on a plurality of rows of
8 the result table; and
9 positioning the cursor on the plurality of rows of the result table indicated in the
10 fetch request that satisfy the search criteria.

1 24. The article of manufacture of claim 23, wherein the operations further
2 comprise:
3 placing a lock on the plurality of rows of the result table on which the cursor is
4 positioned.

1 25. The article of manufacture of claim 24, wherein the fetch request is
2 received from a client at a server, and wherein the operations further comprise:
3 returning, by the server, the plurality of rows at the server on which the cursor is
4 positioned to the client that sent the fetch request, wherein the lock is placed on the
5 plurality of rows at the server to block the plurality of rows on which the cursor is
6 positioned.

1 26. The article of manufacture of claim 24, wherein the operations further
2 comprise:
3 receiving a subsequent fetch request to reposition the cursor on at least one row of
4 the result table; and
5 releasing the lock on the plurality of rows of the result table on which the cursor
6 is currently positioned before being repositioned.

1 27. The article of manufacture of claim 23, wherein the cursor is positioned on
2 a current plurality of rows of the result table before receiving the fetch request, and
3 wherein positioning the cursor further comprises:
4 determining a rowset size; and
5 positioning the cursor on a number of rows with respect to one row of the result
6 table having rows that satisfy the search criteria.

1 28. The article of manufacture of claim 27, wherein positioning the cursor on
2 the number of rows with respect to one row of the result table comprises one of:

3 positioning the cursor on a number of rows preceding a first row of the current
4 plurality of rows that satisfy the search criteria;
5 positioning the cursor on a number of rows from a first row of the result table that
6 satisfy the search criteria;
7 positioning the cursor on a number of rows preceding an end of the result table
8 that satisfy the search criteria;

1 29. The article of manufacture of claim 23, wherein the cursor is positioned on
2 a current plurality of rows of the result table before receiving the fetch request specifying
3 an integer k , and wherein positioning the cursor further comprises:
4 determining a rowset size; and
5 positioning the cursor on a number of rows that satisfy the search criteria and is
6 positioned with respect to k rows from row of the result table having rows that satisfy the
7 search criteria.

1 30. The article of manufacture of claim 29, wherein positioning the cursor on
2 a number of rows that satisfy the search criteria and is positioned with respect to k rows
3 from row of the result table comprises one of:
4 positioning the cursor on a number of rows that satisfy the search criteria and
5 precede k rows preceding a first row of the current plurality of rows that satisfy the
6 search criteria;
7 positioning the cursor on a number of rows that satisfy the search criteria and
8 follow a number of rows equal to the rowset size from a k th row from a first row of the
9 result table;
10 positioning the cursor on a number of rows that satisfy the search criteria and
11 precedes k rows that satisfy the search criteria preceding a last row of the result table; and

1 31. The article of manufacture of claim 23, wherein the operations further
2 comprise:
3 receiving a request to modify at least one row in the rows on which the cursor is
4 positioned; and
5 modifying the at least one row on which the cursor is positioned as indicated in
6 the request.

1 32. The article of manufacture of claim 31, wherein the modification
2 comprises updating or deleting the at least one row on which the cursor is positioned as
3 indicated in the request.

1 33. The article of manufacture of claim 23, wherein the cursor comprises one
2 of a static cursor or dynamic cursor, wherein if the cursor is static, then the cursor is
3 either sensitive or insensitive to changes in the base table from which the result table is
4 generated.

1 34. The article of manufacture of claim 23, wherein the cursor is positioned on
2 a current plurality of rows of the result table before receiving the fetch request, and
3 wherein the current plurality of rows is a different number than a number of the rows on
4 which the cursor is positioned in response to the fetch request.